

# Avtron K711H

## Resistive “Roof Top” Style Load Bank - 5 to 500 KW

### Testing Your Emergency Standby Generator with a Load Bank Means Reliability When it Matters Most.

#### Key Features

- Designed for Sound Attenuated Enclosures
- Economical - Uses Engine Air for Cooling
- Reduces “Wet-Stacking” Problems
- Provides Load for Routine Generator Testing
- Corrosion Resistant Aluminized Steel Frame
- Includes Exhaust Screening for Continuous Outdoor Operation

Superior Avtron quality combined with simple operation and maintenance will provide years of trouble free service.

Avtron’s extensive line of Load Bank and Industrial Resistor Products are solid performers used throughout the world.

For total technical support or additional information, please contact Avtron at (216) 573-7600 or [LBsales@Emerson.com](mailto:LBsales@Emerson.com).

Quality System Certified to ISO 9001

### The Avtron Model K711H Load Banks are intended for use as a supplemental load for lightly loaded engine gen sets.

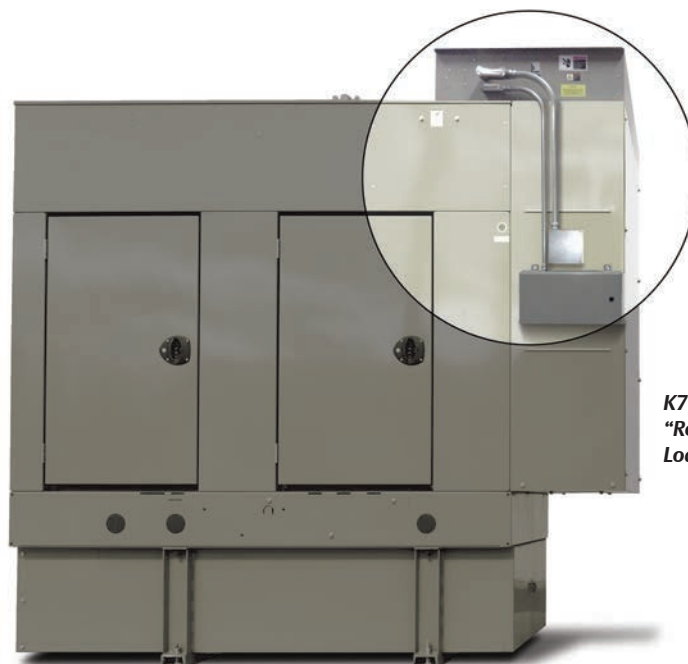
The Avtron K711H “Roof Top” Style Load Banks are designed for mounting on sound attenuated enclosures and are available in a variety of frame dimensions. The load banks are permanently mounted and sized to match the exhaust opening. The K711H load banks utilize the engine cooling air rather than an internal cooling fan found on conventional load banks.

The primary cause of premature diesel engine failure is “wet-stacking” which is literally “wet” unburned fuel accumulating in the engine exhaust (“stack”), due to under-loading of the generator. Diesel engines that are lightly loaded or allowed to idle for long periods never reach their recommended full operating temperature. Over time, this unburned fuel coats the combustion chamber and pistons with a thick coating of tar and carbon build-up, reducing efficiency and life span of the engine considerably. A supplemental radiator load bank helps to “burn-off” these harmful carbon deposits, greatly increasing engine life.

These units are offered in 208, 240, 480, or 600 volt versions (at 60 Hz) or 380, 400, or 416 volt versions (at 50 Hz). Load rating varies and typically ranges between 5 and 500 KW. Most engine manufacturers recommend sizing the radiator load bank to 40-60% of engine nameplate rating to eliminate “wet-stacking” problems.

The load bank is controlled from individual load-step toggle switches. The control panel is provided as a remote wall mount style which is required for “roof top” applications.

The K711H “roof top” style load bank is intended for use as a supplemental load for lightly loaded engine generator sets. The load bank utilizes the engine cooling air to cool the resistive load elements.



**K711H 300 KW Resistive  
“Roof Top” Style Avtron  
Load Bank.**

# Avtron K711H

## Resistive Load Bank - 5 to 500 KW

### Specifications subject to change without notice.

#### Construction

Formed aluminized steel frame provides a rigid enclosure to match the height and width of the engine radiator or duct. Lifting eyes are included to simplify installation. The standard depth is 13" [330.2]. For applications where the amount of load element KW required exceeds the available 13" depth, then a "double-deep" K711A can be used instead, with a 26" [660.4] depth. Designed for outdoor operation.

#### Control Power

The Load Bank requires external control power of 120 VAC, single phase, 50/60 Hz. A control power transformer is available as an option for sites where 120 VAC is not readily available.

#### Cooling

The Load Bank does not have its own cooling system. Instead, it relies on cooling air from the engine driven radiator fan or separately powered duct blowers. A built-in thermal switch drops all load if an overtemperature condition is detected.

#### Controls

The remote control panel contains a POWER ON-OFF switch, a MASTER LOAD ON-OFF switch, and individual load step toggle switches for application of individual load sections. A MANUAL/AUTO switch is also provided (if the optional automatic load step controller is included). A remote rack-mounted control panel with wall-mounted enclosure is available as an option.

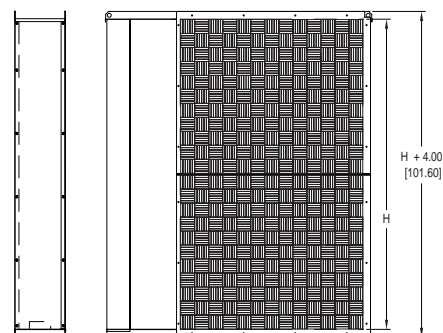
#### Resistor Elements

The fully supported Avtron Helidyne™ resistive load elements are made of corrosion resistant chromium alloy wire and are engineered to operate at conservative temperature ratings. This provides more stable loading, extends resistance element operating life, and eliminates the need for a cool down period after load bank operation.

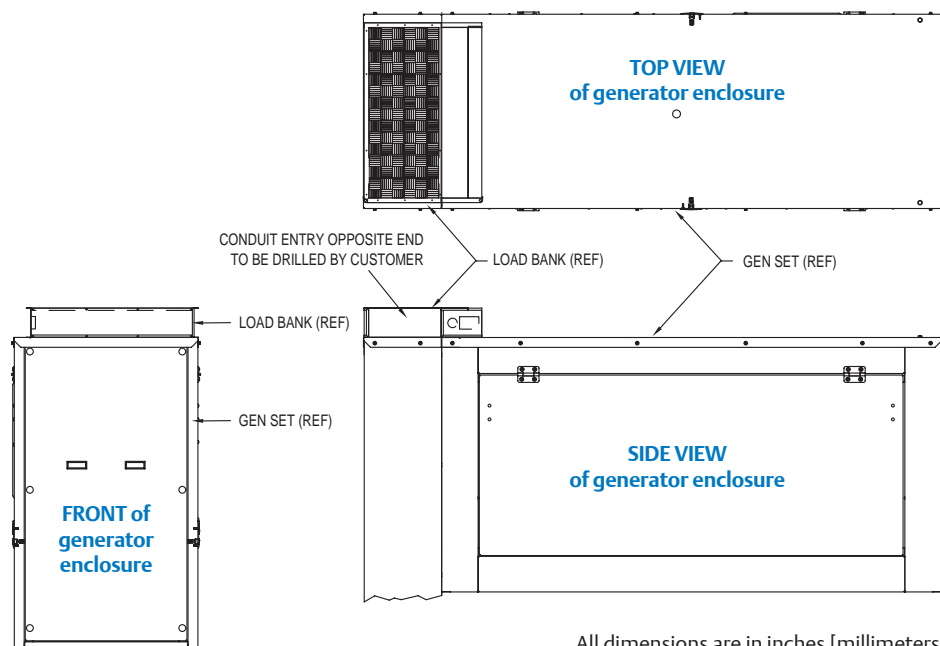
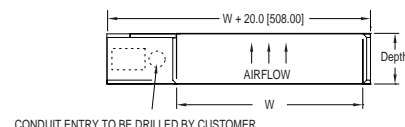
#### Options

- Control Power Transformer
- Automatic Load Step Controller
- ADMS™ Digital Metering System, Remote Mounted
- Remote Control Panel with Enclosure
- Remote I/O for Interface to Switch Gear

**NOTE** Designs for international 50/60 Hz voltages are also available. Consult factory.



load bank



All dimensions are in inches [millimeters].



Emerson Network Power

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[EmersonNetworkPower.com/loadbank](http://EmersonNetworkPower.com/loadbank)

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